

In the Specification:

Please amend the specification beginning at page 6 line 11 *et seq.* as follows:

FIG. 3 shows a diagram 300 of a portion of an integrated circuit with a P-type substrate 305 having a first N-well 310 and a second N-well 315. Body-bias V_{BBN1} 360 is provided to N-well 310 and body-bias V_{BBN2} 370 is provided to N-well 315. Body-bias V_{BBN1} 360 is coupled to switch 320 as a control input 321, and body-bias V_{BBN2} 370 is optionally coupled to switch 320 as a control input 322. The switch 320 has a switched terminal 330 coupled to V_{BBP} 380 and a switched terminal 340 coupled to ground. The switch has a fixed output terminal 350 coupled to the substrate 305. As used herein, the term "coupled" refers to a physical coupling and does not necessarily imply an electrical coupling. Electrical coupling may be made selectively between elements that are physically coupled.

Switch 320 acts as a single-pole, double-throw (SPDT) switch, selectively and electrically coupling the substrate 305 to body bias V_{BBP} 380 or ground, depending upon the state of bias supply lines V_{BBN1} 360, V_{BBN2} 370, and V_{BBP} 380. If V_{BBN1} 360 (or V_{BBN2} 370 if present) is high and V_{BBP} 380 is off, the

switch 320 electrically couples the substrate 305 to ground. By electrically coupling the substrate to ground, the switch prevents the substrate from floating up to a potential that could forward bias the junction between the substrate and an unbiased N-well in the integrated circuit.

Operating power is supplied to the switch 320 by a small auxiliary charge pump (not shown) rather than one of the bias lines, since it is desirable that the switch be able to operate regardless of the state of the bias lines.

If V_{BBP} 380 is on (e.g., -1.2 volts) and V_{BBN1} 360 (or V_{BBN2} 370 if present) is high, the switch 320 couples the substrate to V_{BBP} 380. For the case when V_{BBP} 380 is on while V_{BBN1} 360 and V_{BBN2} 370 are low, the switch may be built to switch the substrate to either V_{BBP} 380 or to ground, depending upon other design considerations. For all possible bias input combinations, the switch 320 provides a regulated substrate potential that prevents undesirable forward biasing of the substrate/N-well junction.